

Fig. 2

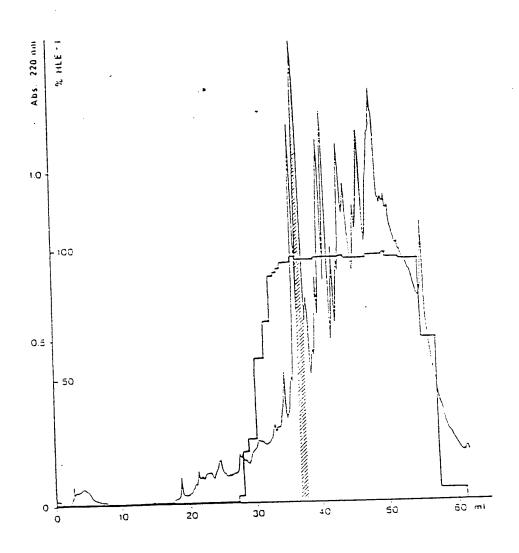


Fig. 3

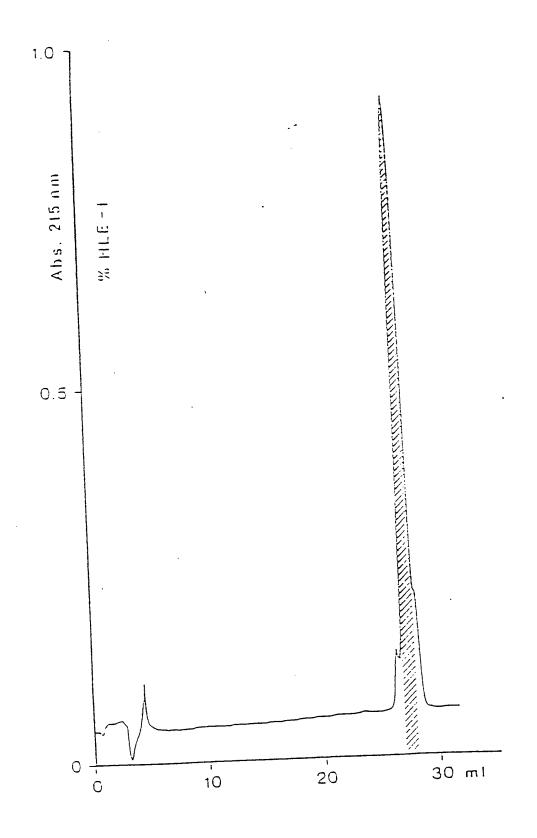


Fig. 4

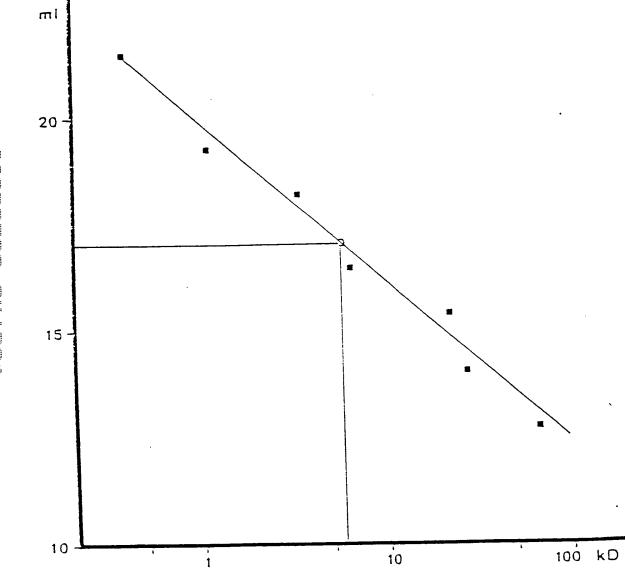
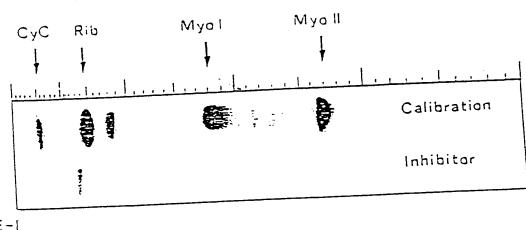


Fig. 5

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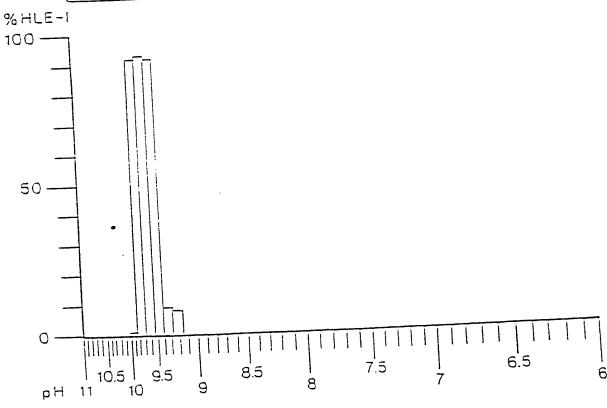


Fig. 6

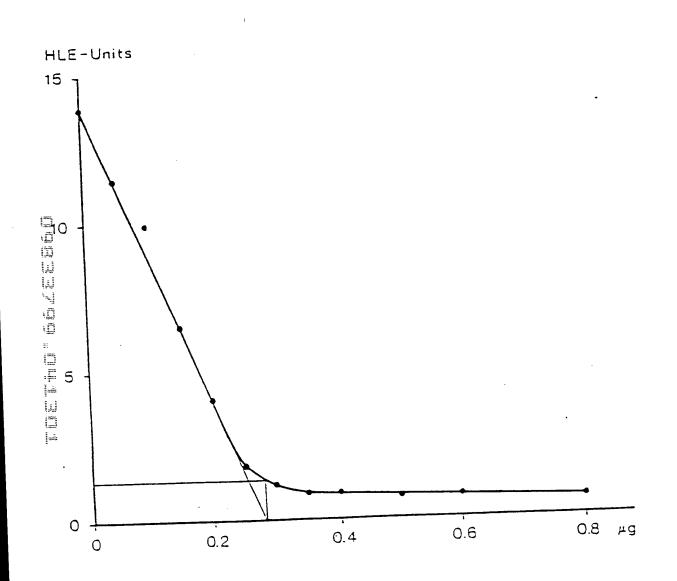


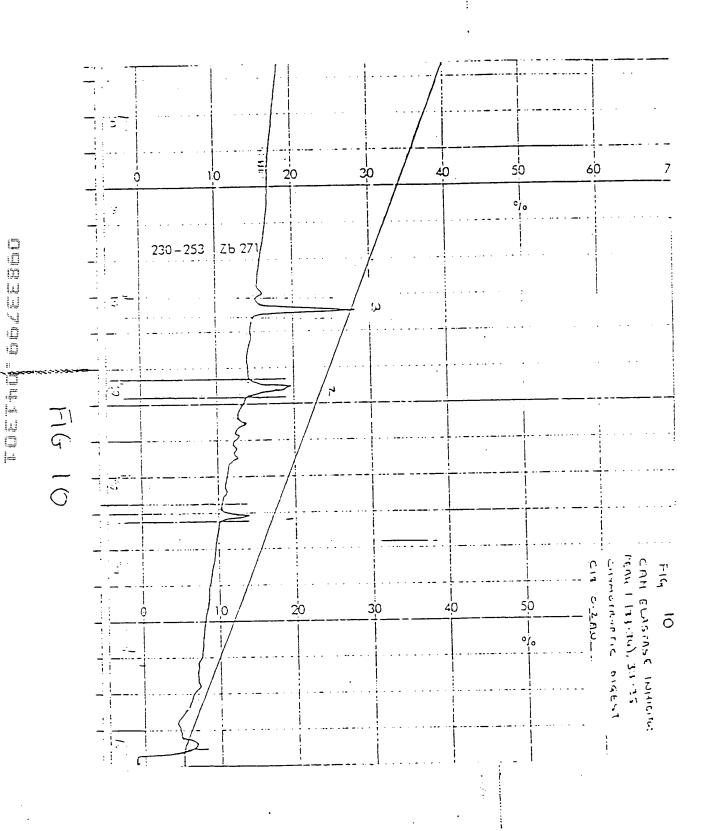
Fig. 7

roerio cozeeso FIGURE 8

		PROTEIN SPOUFNCE OF ELASTASE INHIBITOR	\(\frac{1}{2}\)	FOUF	NCE (OF EL/	ASTAS	E INH	IBITO	\propto l	
- &	Gln	6 90	8	19	争	619	o _b	19	Ser	Thr	F
			- DIRECT	DIRECT SEQUENCE)E	T10					
g _o	SP3	ઢ	F.	S _S	The	Ħ	ब	H a H	Ag	3	Ala
			\times						T	<	—91
Ret	رما	Asn	9	e e	- S	Arg	3	યુ	sh	Ps P	Thr
			91						- T4	- C3-9	6
Asp	Ę,	900	45	1 ke	- 62-0- Lys	5 77	કૃષ્ટિ	ક નું	ગુંડ	£ 5	Š
			<u> </u>		-6-29-	6:			- 61		
Sf _D	र्भेड	Met	A1a	F	<u>a</u>	Val	0 7)	57 61 n			
	- C.39)	C2-6			-C2-3-			 	A D M F A	<i>V</i> 1
"		X=UNITANTIFIED	<u>II</u>	T=TRYPTIC FRAGMENIS	FRAGN	/FZ_/	エ !! こ	C=CHYMCIKIFIC FKAGMENIS	등 드	ZAOME.	<u> </u>

FIG 9

noszszan jnuspos



roerho<u>f oozeebon</u>

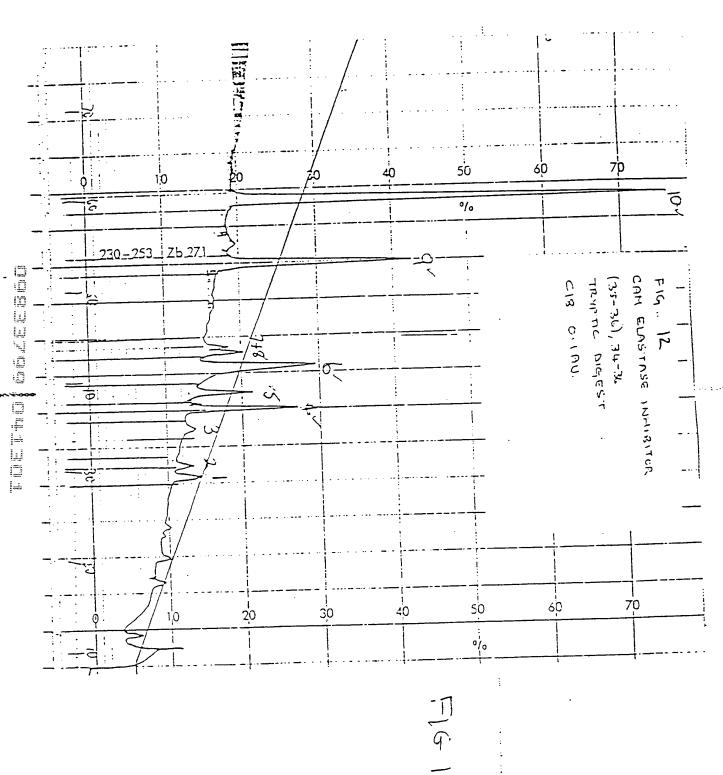


Figure 13

AlaGlnGluProValLysGlyProValSerThr

1 AATTCGAGCTCGGTACCATACCTGCATATGCTCAAGAACCAGTTAAAGGTCCTGTGTCTACT
GCTCGAGCCATGGTATGGACGTATACGAGTTCTTGGTCAATTTCCAGGACACAGATGA

LysProGlySerCysProIleIleLeuIleArgCysAlaMetLeuAsnProProAsnArg

63 ELI3

AAGCCAGGTTCTTGTCCTATTATCTTGATTCGTTGCGCTATGTTAAACCCACCTAACCGT

TTCGGTCCAAGAACAGGATAATAGAACTAAGCAACGCGATACAATTTGGGTGGATTGGCA

CysLeuLysAspThrAspCysProGlyIleLysLysCysCysGluGlySerCysGlyMet

123 ELI5

TGTTTGAAGGACACTGATTGTCCAGGTATCAAAAAGTGCTGTGAAGGTTCCTGCGGTATG

ACAAACTTCCTGTGACTAACAGGTCCATAGTTTTTCACGACACTTCCAAGGACGCCATAC

ELI4

AlaCysPheValProGlnEndEnd
183 GCTTGTTTCGTTCCACAATAATAG

CGAACAAAGCAAGGTGTTATTATCCTAG 210 ELI6 ← − −

Figure 14

Ala Gln Glu Pro Val Lys Gly Pro Val Ser Thr Lys Pro Gly Ser Cys GCG CAA GAG CCA GTC AAA GGT CCA GTC TCC ACT AAG CCT GGC TCC TGC 5' DNA
Sequence

Pro Ile Ile Leu Ile Arg Cys Ala Met Leu Asn Pro Pro Asn Arg Cys CCC ATT ATC TTG ATC CGG TGC GCC ATG TTG AAT CCC CCT AAC CGC TGC

Leu Lys Asp Thr Asp Cys Pro Gly Ile Lys Lys Cys Cys Glu Gly Ser

TTG AAA GAT ACT GAC TGC CCA GGA ATZ AAG AAP TGC TGT GAA GGC TCT

Cys Gly Met Ala Cys Phe Val Pro Gln TGC GGG ATG GCC TGT TTC GTT CCC CAG

Z = T, C or AP = A or G

Figure 15

Ala Gln Glu Pro Val Lys Gly Pro Val Ser Thr Lys Pro Gly Ser Cys GCG CAA GAG CCA GTC AAA GGT CCA GTC TCC ACT AAG CCT GGC TCC TGC 5' DNA

Sequence

Pro Ile Ile Leu Ile Arg Cys Ala Met Leu Asn Pro Pro Asn Arg Cys CCC ATT ATC TTG ATC CGG TGC GCC ATG TTG AAT CCC CCT AAC CGC TGC

Leu Lys Asp Thr Asp Cys Pro Gly Ile Lys Lys Cys Cys Glu Gly Ser

TTG AAA GAT ACT GAC TGC CCA GGA ATZ AAG AAP TGC TGT GAA GGC TCT

Cys Gly Met Ala Cys Phe Val Pro Gln
TGC GGG ATG GCC TGT TTC GTT CCC CAG TAG GAGGGAGCCGGTCCTTGCTGCACCTGT

GCCGTCCCCAGAGCTACAGGCCCCATCTGGTCCTAAGTCCCTGCTGCCCTTCCCCACACTGTCCA
TTCTTCCTCCCCATTCAGGATGCCCACGGCTGGAGCTGCCTCTCTCATCCACTTTCCAATAAAGAGTTCCG
Poly A 3'
signal

Z = T, C or AP = A or G

FIGURE 16

50 30 10

 ${\tt G\underline{GAATTC}CGGTTCCTCATCGCTGGGACGCTGGT\underline{TCTAGA}GGCAGCTGTCACGGGAGTTCC}$ XbaI

EcoRI

F L I A G T L V L E A A V T G V P

|-----IN-FRAME UPSTREAM PROTEIN SEQUENCE----110 90

70

TGTTAAAGGTCAAGACACTGTCAAAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAA

V K G Q D T V K G R V P F N G Q D P V K

150 130

170

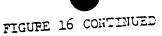
 ${\tt AGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAGCGCAAGAGCCAGTCAAAGGTCC}$

G Q V S V K G Q D K V K

AlaGlnGluProValLysGlyPr

|--ELASTASE INHIBITOR--

Cont'd 16b of 19



190

210

230

 $AGTCTCCACTAAGCCTGGCTCCTGCCCC\DeltaTTATCTTGATCCGGTGCGCCATGTTGAATCC\\ oValSerThrLysProGlySerCysProIleIleLeuIleArgCysAlaMetLeuAsnPr$

250

270

290

CCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTC

oProAsnArgCysLeuLysAspThrAspCysProGlyIleLysLysCysCysGluGlySe

330
350

310

TTGCGGGATGGCCTGTTCCCCCAGTGAGAGGGAGCCGGTCCTTGCTGCACCTGTGC
rCysGlyMetAlaCysPheValProGlnEnd
410

370

390

CGTCCCCAGAGCTACAGGCCCCATCTGGTCCTAAGTCCCTGCTGCCCTTCCCCAC

430

450

470

ACTGTCCATTCTCCTCCCATTCAGGATGCCCACGGCTGGAGCTGCCTCTCTCATCCACT

490

TTCCAATAAAGAGTTCCGGAATTC

Poly A

EcoRI

signal

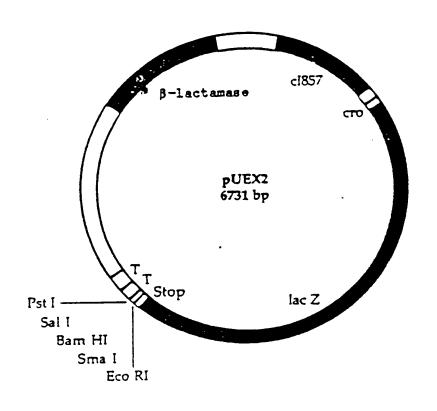


FIG 17

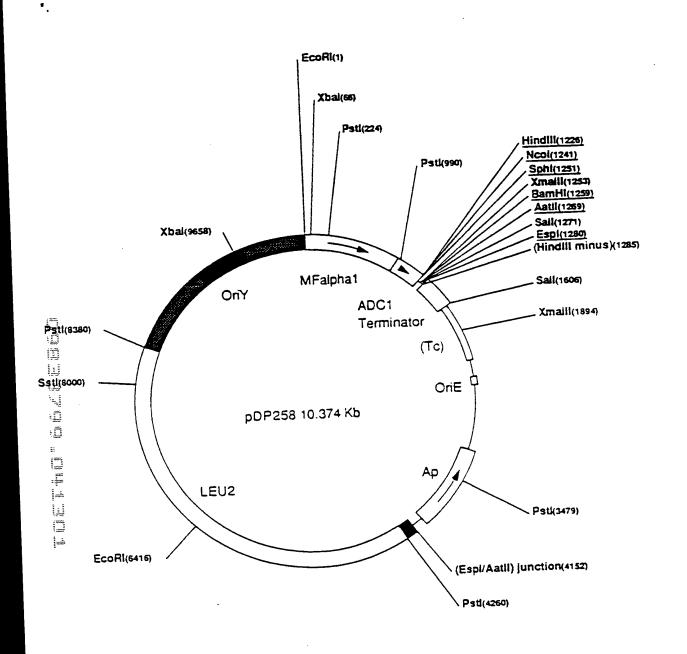


FIG 18

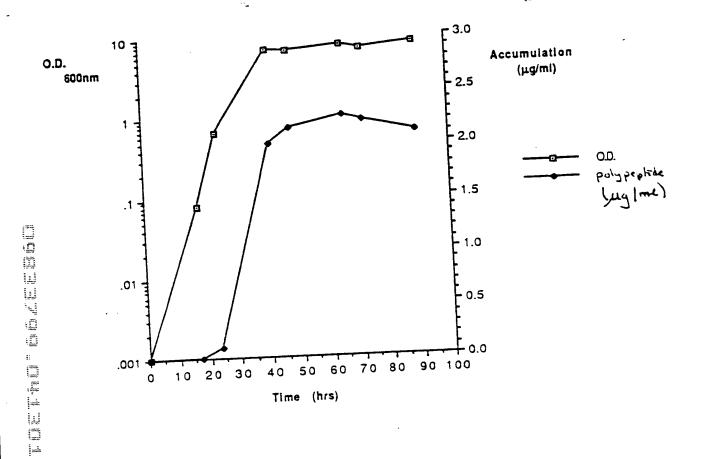


FIG 19